

(19) World Intellectual Property Organization International Bureau

(43) International Publication Date
24 March 2005 (24.03.2005)

PCT

(10) International Publication Number
WO 2005/026368 A2(51) International Patent Classification⁷: C12N 15/82,
9/04, A01H 5/00

M. [US/US]; 100 Woods Lane, Landenberg, PA 19350 (US). FAMODU, Omolayo, O. [US/US]; 216 Barrett Run Place, Newark, DE 19702 (US). HUANG, Lisa, L. [CN/US]; 1423 Old Wilmington Road, Hockessin, DE 19707 (US). CONCEICAO, Alexandre, da Silva [US/US]; 1229 Prospect Drive, Wilmington, DE 19809 (US). MCGONIGLE, Brian [US/US]; 1707 N. Union Street, Wilmington, DE 19806 (US). TAO, Yong [CN/US]; 9 Hummingbird Lane, Newark, DE 19711 (US).

(21) International Application Number:
PCT/US2004/029541

(74) Agent: JOUNG, J., Kenneth; E. I. du Pont de Nemours and Company, Legal Patent Records Center, 4417 Lancaster Pike, Wilmington, DE 19805 (US).

(22) International Filing Date:
9 September 2004 (09.09.2004)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,

(25) Filing Language: English

English

(26) Publication Language: English

(30) Priority Data:
60/501,788 10 September 2003 (10.09.2003) US

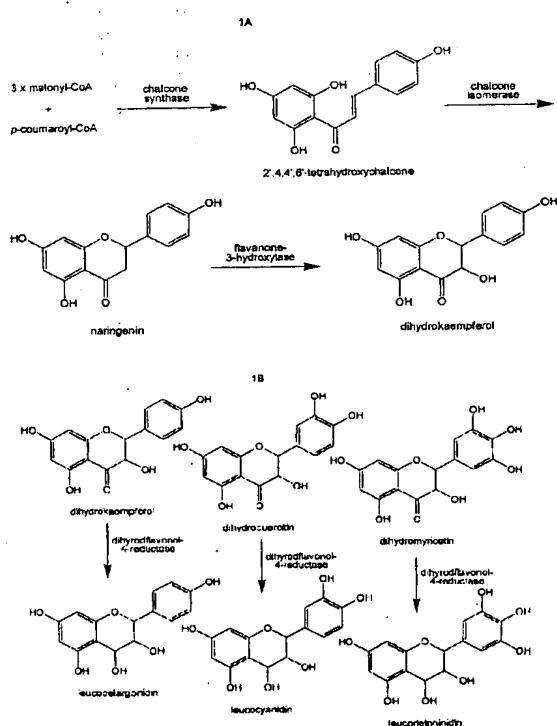
(71) Applicant (for all designated States except US): E. I. DU PONT DE NEMOURS AND COMPANY [US/US]; 1007 Market Street, Wilmington, DE 19898 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): FADER, Gary,

{Continued on next page}

(54) Title: DIHYDROFLAVONOL-4-REDUCTASE



(57) Abstract: This invention relates to an isolated nucleic acid fragment encoding a dihydroflavonol-4-reductase. The invention also relates to the construction of a recombinant DNA construct encoding all or a portion of dihydroflavonol-4-reductase, in sense or antisense orientation, wherein expression of the recombinant DNA construct results in production of altered levels of the dihydroflavonol-4-reductase in a transformed host cell.

WO 2005/026368 A2